

CLAIMS

What is claimed is:

1. A method for transmitting a packet in a wireless communication system comprising the steps of: measuring (50) an idle time of a transmission medium; reducing (52) a delay time by said idle time; and transmitting (54) said packet at said reduced delay time.
2. The method of claim 1, wherein said step of measuring an idle time further comprises the step of providing a plurality of medium idle input signals to a counter; and counting a time period during which at least one of a predetermined number of said plurality of medium idle signals indicates that said resource is idle.
3. The method of claim 2, further comprising the step of: selectively enabling each of said medium idle signals to provide said predetermined number of said plurality of resource idle signals.
4. The method of claim 1, wherein said step of subtracting said idle time further comprises the step of: generating said delay time as the sum of a backoff time and an I(AFS) initial time.
5. The method of claim 1, further comprising the step of transmitting packet at said transmit time if said medium is not busy at said transmit time.
6. The method of claim 5, further comprising the steps of: generating a plurality of medium busy status signals; and generating a medium busy signal when at least one of a predetermined number of said plurality of medium busy status signals indicates that the resource is busy.
7. The method of claim 6, further comprising the step of: selectively enabling each of said medium busy status signals to provide said predetermined number of said plurality of medium busy signals..
8. A device for transmitting a data packet comprising: an idle timer (40) for measuring an idle time of a transmission medium; a start controller (32) for reducing a delay time associated with transmission of said data packet by said idle time; and a transmitter for transmitting said packet at said reduced delay time.
9. The device of claim 8, further comprising: a plurality of medium idle signals (42) input to said idle counter (40), wherein said idle counter (40) counts counting a time period during which at least one of a predetermined number of said plurality of resource idle signals indicates that said resource is idle.

10. The device of claim 9, further comprising: means for selectively enabling each of said resource idle signals to provide said predetermined number of said plurality of resource idle signals.

11. The device of claim 8, wherein said start controller generates said delay time as a sum of a backoff time and an I(AFS) initial time.

12. The device of claim 8, wherein said transmitter transmits said data packet at said reduced delay time if said medium is not busy at said transmit time.

13. The device of claim 12, further comprising: a plurality of resource busy status signals which are used to generate a resource busy signal when at least one of a predetermined number of said plurality of resource busy status signals indicates that the resource is busy.

14. The device of claim 13, further comprising: means for selectively enabling each of said resource busy status signals to provide said predetermined number of said plurality of resource busy signals.